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NPIC/P&DS/D/6-1586
19 September 1966

MEMORANDUM FOR THE RECORD

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SUBJECT: ☐ Paper, "The Photobleach Photography Process," dated
19 August 1966

1. General Comment.

This paper discusses a number of basic variables which should be of some help in defining the state of development of this process. However, I find it to be either intentionally noncommittal or else very poorly executed. The problem is that the variables are not correlated. Each section discusses a wide range of performance--in and out of acceptable limits--vaguely attained or possibly attainable--but it does not discuss what the alteration of one variable--such as density--causes in the performance of another variable, such as speed, etc. etc.

2. Color and Density.

The problem stated here has been with them since the beginning. Ozalid doesn't have it. I haven't seen any examples as good as they cite.

3. Latitude.

This involves gamma and sensitivity as well. I haven't seen 14 steps on this material, but I have seen 15 or 16 in ozalid.

4. Sensitivity.

This is a very important factor which is poorly defined in this paper. In order for any definition of it to be significant it must be related to other important variables such as density, gamma, contrast range, etc.

5. Fixing.

They certainly appear to have major problems to solve in this area.

Declass Review by NGA.

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6. Resolution.

Here again the interrelationships with other variables is of utmost significance--yet completely omitted. As the size of the photon receptor is reduced, the probability of such an event is also reduced, thereby diminishing speed. Their resolution figures are meaningless without the corresponding relationships of speed, gamma, etc. I haven't seen their 350 l/mm example.

7. Reciprocity Characteristics.

This information is far too incomplete to have any appreciable significance.

8. The gamma characteristics may be superior to ozalid, but we cannot evaluate them without the interrelationships with the other basic variables. By the end of two years research we should have extensive data completely describing the present state of development.

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9. [] the prime mover behind this project, has left the company. This is likely to make future efforts less significant.

10. Summary.

Claims 1, 2, and 3 I have not been verified. Claim 3 is unimpressive and 5 is unfortunate, and the project leader has left the company.

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Acting Chief, Development Branch, P&DS

Distribution:
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NPIC/P&DS/DB [] (19 Sep 66)